

PRODUCT	MPU	DRAM
Y_{overall}	75%	85%
Y_{random}	83%	89.5%
$Y_{\text{systematic}}$	90%	95%

Fig. 1
(PRIOR ART)

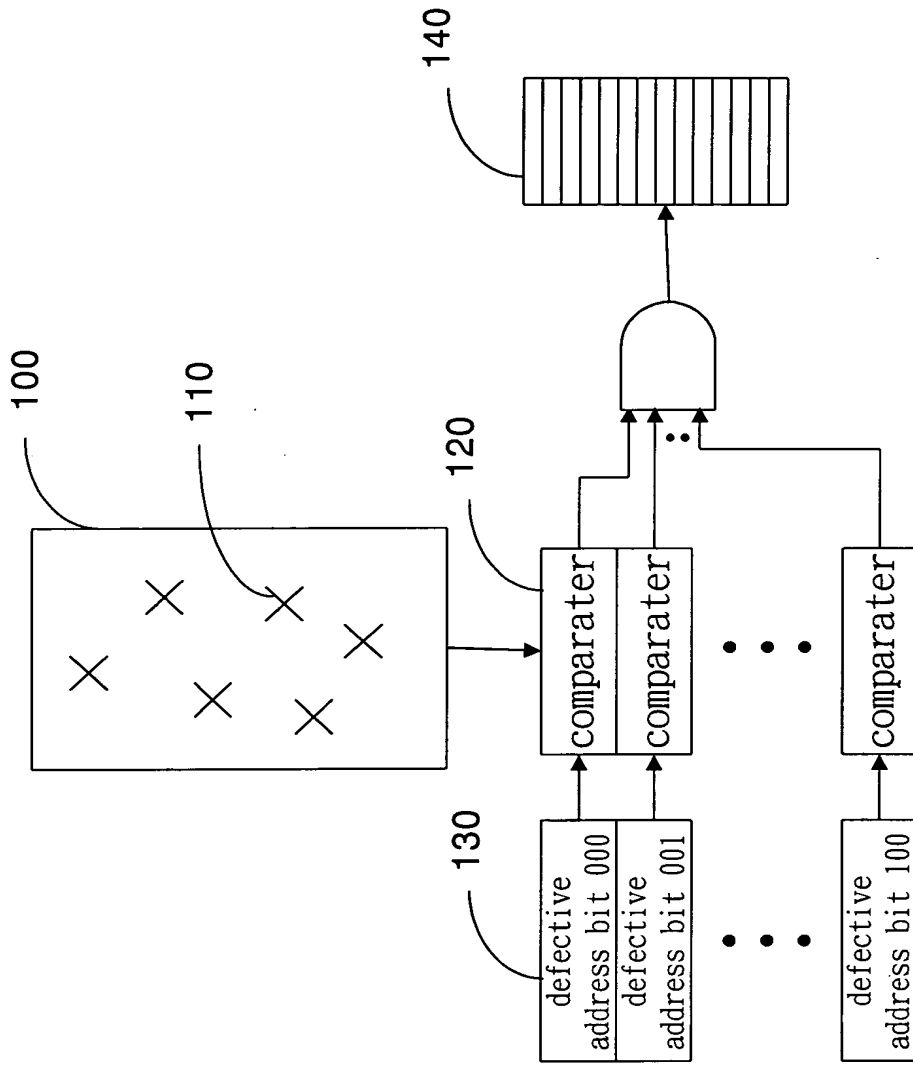


Fig. 2
(PRIOR ART)

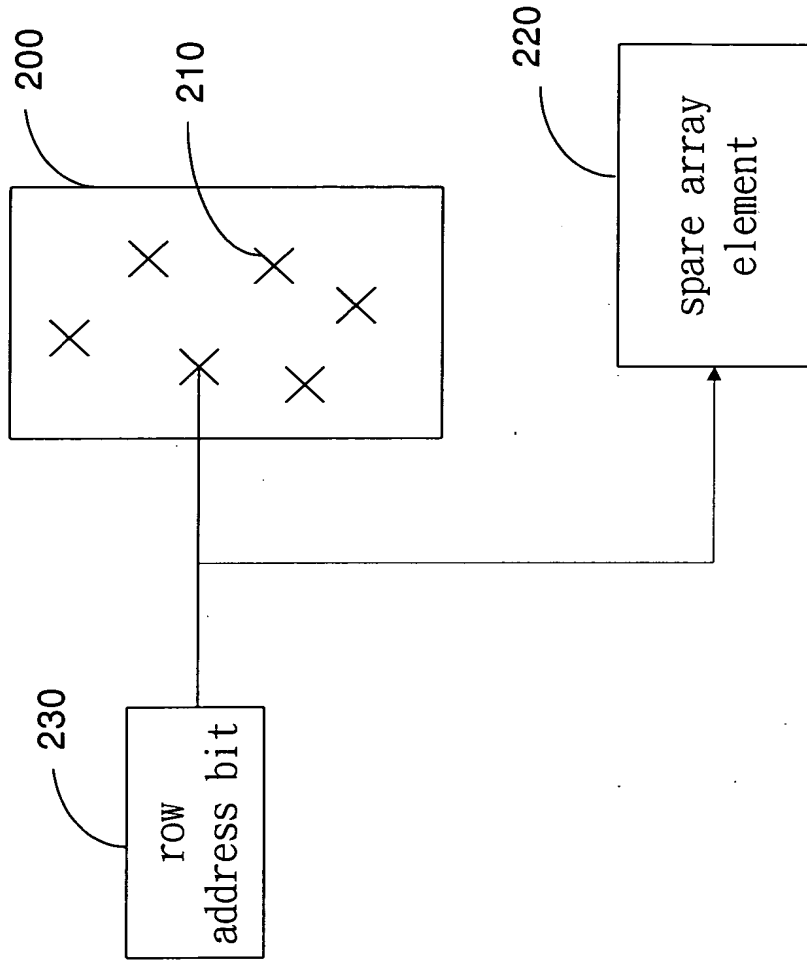


Fig. 3
(PRIOR ART)

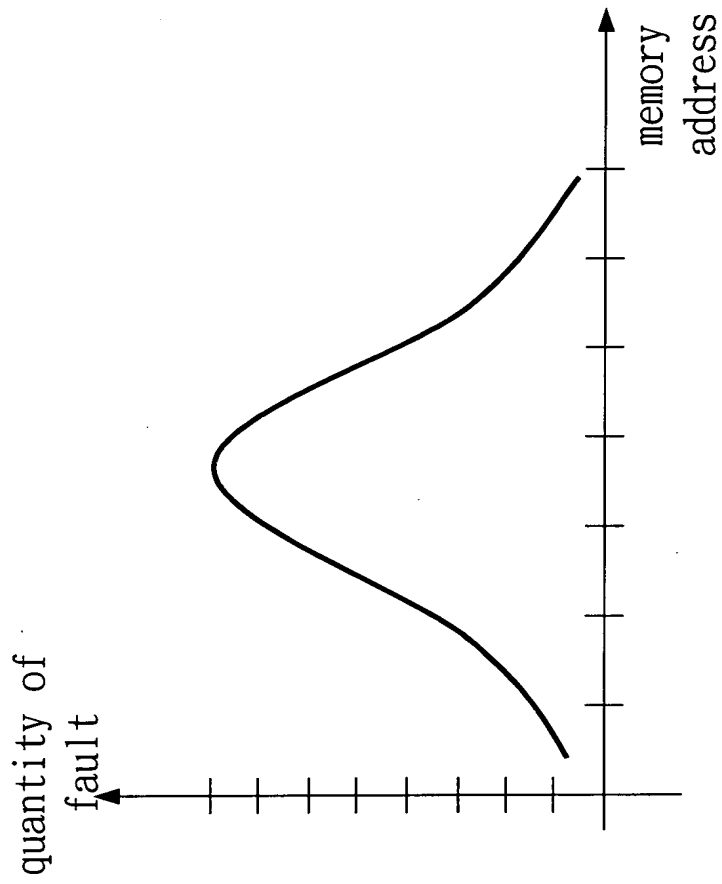


Fig. 4
(PRIOR ART)

a 2G DRAM has 521k memory pages(the size of every memory page is 4k bit)				
every 8k memory pages	every 16k memory pages	every 32k memory pages	every 128k memory pages	
Two fault pages are tolerant in every 8k memory pages	Two fault pages in surplus are tolerant in every 16k memory pages	Two fault pages in surplus are tolerant in every 32k memory pages	Four fault pages in surplus are tolerant in every 128k memory pages	
Need two associate memories and comparators	Need two associate memories and comparators	Need two associate memories and comparators	Need four associate memories and comparators	
There are totally sixty four 8k memory pages in 512k (512/8=64)	There are totally thirty two 16k memory pages in 512k (512/16=32)	There are totally sixteen 32k memory pages in 512k (512/32=16)	There are totally four 128k memory pages in 512k (512/128=4)	
128 fault pages are totally tolerant (2*64=128)	64 fault pages are totally tolerant (2*32=64)	32 fault pages are totally tolerant (2*16=32)	16 fault pages are totally tolerant (4*4=16)	

Fig. 5

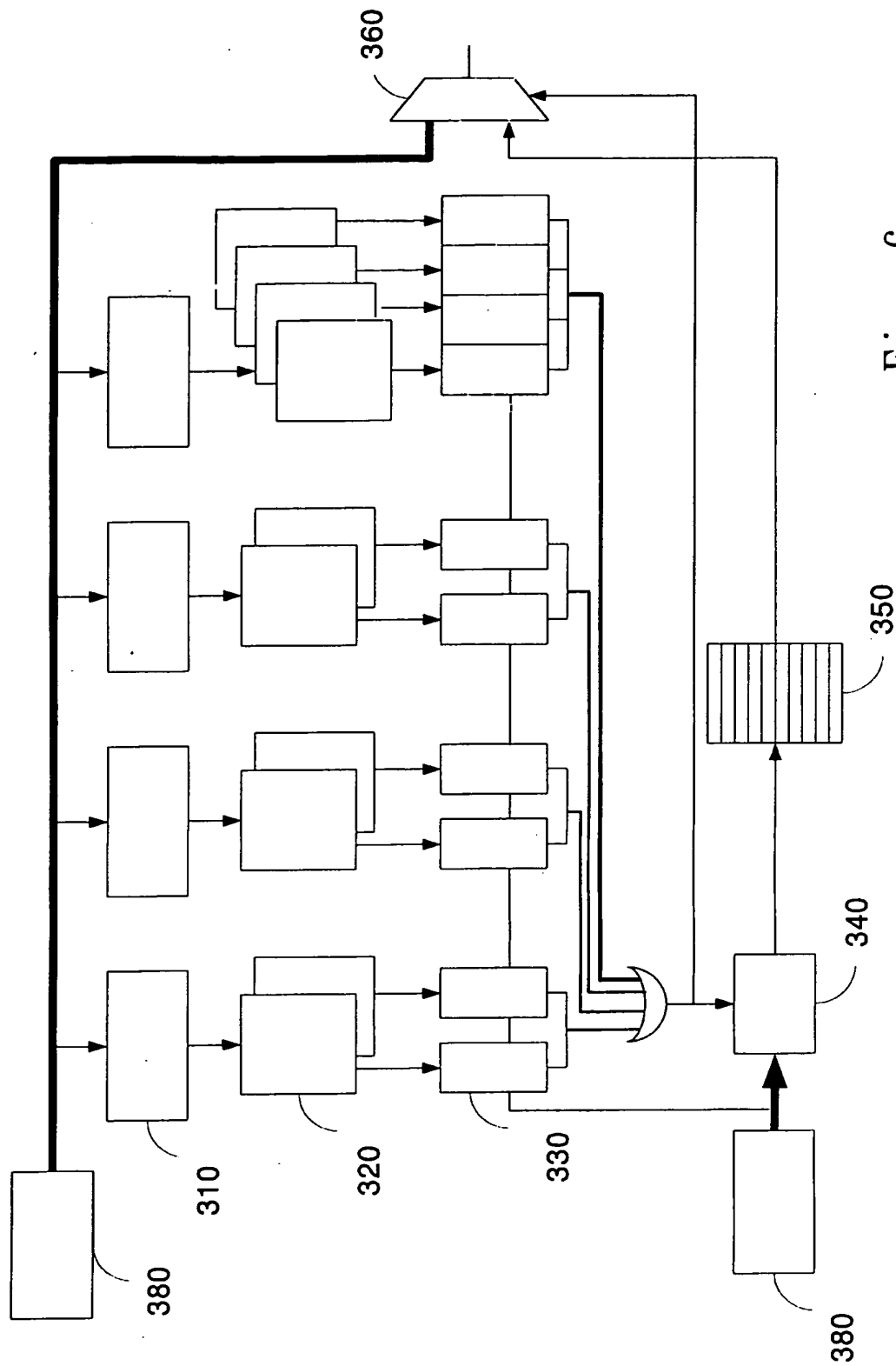


Fig. 6

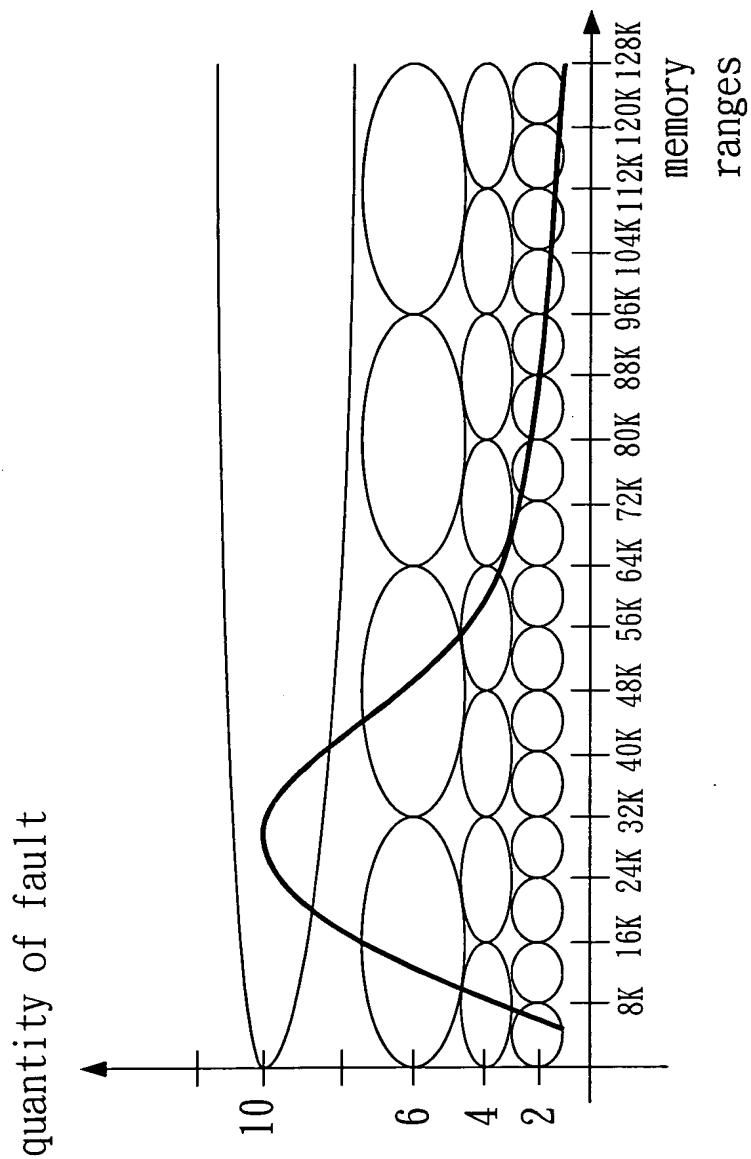


Fig. 7

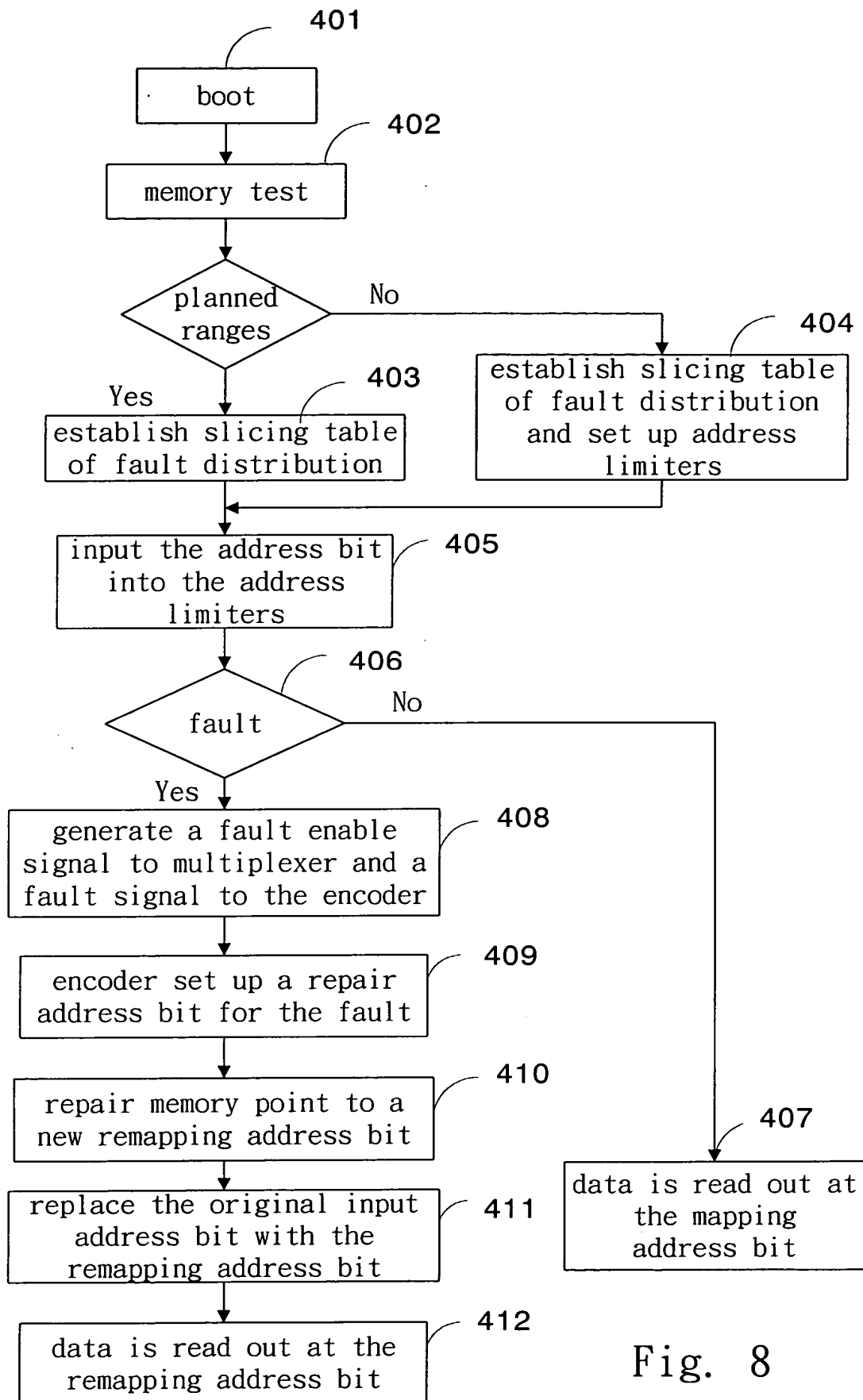


Fig. 8